

The Mid-Atlantic Aviation Partnership (MAAP)

The Virginia/New Jersey/Maryland UAS Test Site

FAA V&V Summit Rose Mooney September 18, 2014

PLIJATION PARTNERS

UAS Test Sites

 FAA designated six Test Ranges to support the safe and efficient integration of Unmanned Aircraft Systems (UAS) into the NAS

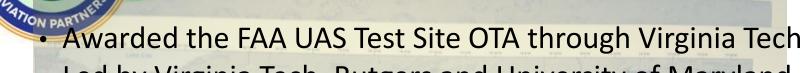
on Dec 30, 2013

 Two on each coast and two in the Central US

- MAAP has strong advantages
- MAAP has strong Industry and Government partnerships



Our Team



- Led by Virginia Tech, Rutgers and University of Maryland
- Includes Academia, Government, Industry, Economic Development
 Agencies and Non-Profit Organizations
- Specific Team strengths:
 - 3 universities ranked in U.S. News and World Report top 100
 - Companies w/ experience in UAS development, manufacture, operation and testing
 - Existing relationships to federal UAS R&D centers
 - William J. Hughes FAA Technical Center
 - NASA Langley, NASA Wallops
 - NAVAIR Patuxent River
 - NSWC Dahlgren
 - International airport with 10,000' runway

Our Mission



The *safe and efficient* integration of Unmanned Aircraft Systems (UAS) into our National Airspace System

- Safety First
- Best Value
- Collaboration
- Responsiveness





TINATION PARTNERS

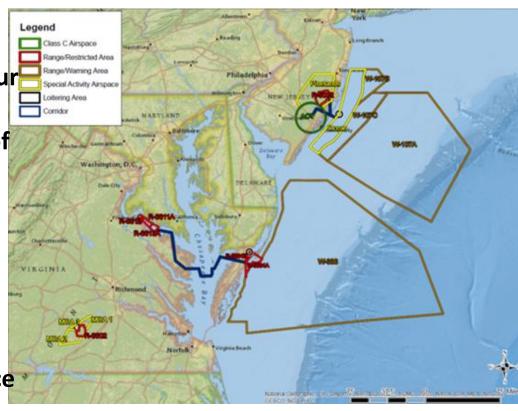
Our Ranges

 High Risk early flight testing to occur in existing Restricted Areas.

 With demonstrated performance of systems under test, will move NAS

- Maximum safety to persons and property
- Full Aviation Infrastructure
- Adjacent airports/airfields
- Surveillance Coverage

 Initial phase of a long-term Airspace Analysis Plan that will evolve our test sites and ranges with the needs of the FAA and UAS industry



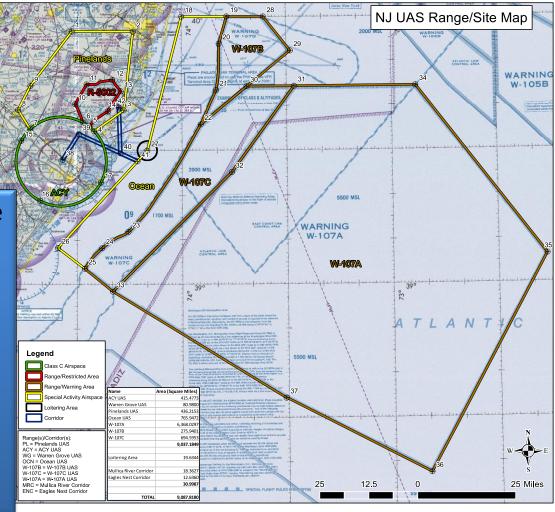
Proposed ranges will provide safety, flexibility and capacity.

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Our NJ Ranges

Proposed Launch and Recover Sites

- New Jersey Cape May County area November
- Eagles Nest



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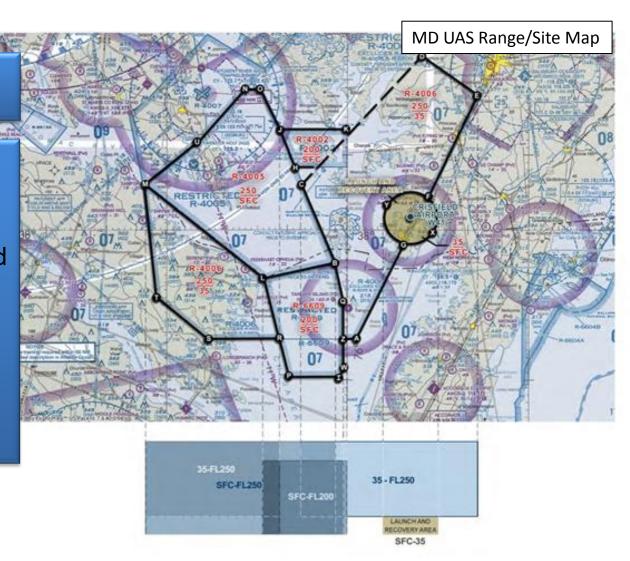
Airspace – Maryland

TEST RANGE AIRSPACE

Proposed Launch and Recover Sites

38.0766, -75.775

- St Mary's County Airport
- Crisfield
- Western Maryland

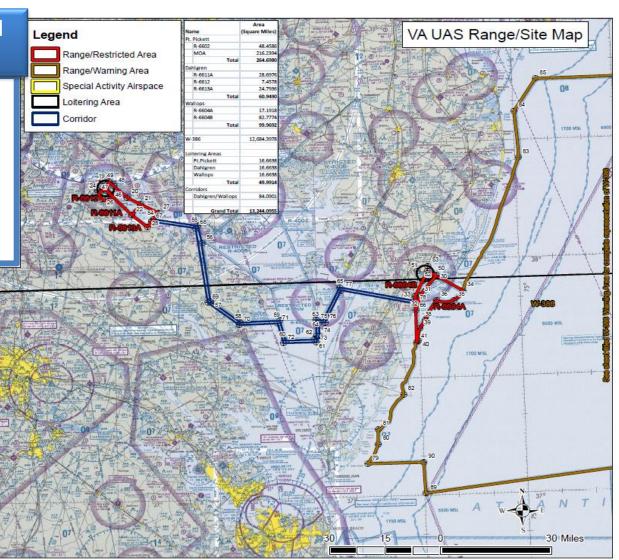


TINATION PARTIES

Airspace – Virginia

Proposed Launch and Recover Sites

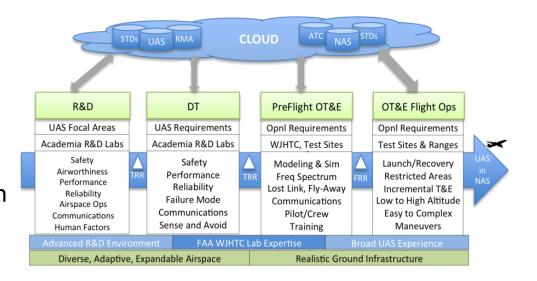
- Wallops
- Blackstone
- Dahlgren
- Wakefield
- Wise
- First Flight was
 August 13th at the
 VT Transportation
 Institute Smart
 Road in Blacksburg
- Wallops in October
- Blackstone in November



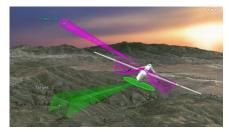
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Our Approach

- Maintain a clear focus on the Safety and Efficiency of integration of UAS in the NAS
- Support FAA Challenges and Priorities for NAS Integration
- Support the UAS lifecycle from innovation to integration
 - Research & Development
 - Realistic Test & Evaluation
 - Modeling & Simulation
 - Operational Flight Testing
- Conduct incremental flight testing in a safe environment
- Manage Big Data to support FAA decisions makers









First Flight Video

This simulation shows how an emergency responder could use an unmanned aircraft at an accident with a hazardous materials spill.



Questions?

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